

Quest Diagnostics
 SPECIMEN INFORMATION
 SPECIMEN: LV340301F
 REQUISITION: 00954919
 Lab ref no:

PATIENT INFORMATION
John, Smith
 DOB: September 11, 1984
 AGE: 20
 GENDER: Male
 FASTING: Unknown

REPORT STATUS: FINAL

ORDERING PHYSICIAN
Jane, Doe
 CLIENT INFORMATION
 2019-02-19 14:43:00 -0800
 Lab Testing API
 280 Madison Avenue
 Room 912, 9th Floor
 New York, NY 10016

COLLECTED: 2019/02/14 12:54
 RECEIVED: 2019/02/14 12:55
 REPORTED: 2019/02/19 14:43

Clinical Info:

Test Name	Result	Flag	Reference Range	Lab
ADVANCED LIPID PANEL, CARDIO IQ(R)				
CHOLESTEROL, TOTAL	136	NORMAL	<200 mg/dL	01
HDL CHOLESTEROL	33	LOW	>50 mg/dL	01
TRIGLYCERIDES	64	NORMAL	<150 mg/dL	01
LDL-CHOLESTEROL	88	NORMAL	<100 mg/dL	01

Desirable range <100 mg/dL for primary prevention; <70 mg/dL for patients with CHD or diabetic patients with > or = 2 CHD risk factors.

LDL-C is now calculated using the Martin-Hopkins calculation, which is a validated novel method providing better accuracy than the Friedewald equation in the estimation of LDL-C. Martin SS et al. JAMA. 2013;310(19): 2061-2068

For additional information, please refer to <http://education.QuestDiagnostics.com/faq/FAQ164> (This link is being provided for informational/educational purposes only.)

CHOL/HDL-C RATIO	4.1	NORMAL	<5.0 calc	01
NON HDL CHOLESTEROL	103	NORMAL	<130 mg/dL (calc)	01

For patients with diabetes plus 1 major ASCVD risk factor, treating to a non-HDL-C goal of <100 mg/dL (LDL-C of <70 mg/dL) is considered a therapeutic option.

LDL PARTICLE NUMBER	1221	NORMAL	732-2035 nmol/L	01
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Risk: Optimal <1138; Moderate 1138-1409; High >1409

LDL SMALL	347	NORMAL	75-452 nmol/L	01
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Risk: Optimal <142; Moderate 142-219; High >219

LDL MEDIUM	239	NORMAL	122-498 nmol/L	01
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Risk: Optimal <215; Moderate 215-301; High >301

HDL LARGE	3394	LOW	3966-11938 nmol/L	01
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Risk: Optimal >6729; Moderate 6729-5353; High <5353

LDL PATTERN	B	ABNORMAL	A Pattern	01
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Risk: Optimal Pattern A; High Pattern B

LDL PEAK SIZE	209.1	LOW	> OR = 217.4 Angstrom	01
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Risk: Optimal >222.9; Moderate 222.9-217.4; High <217.4

Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on adult U.S. reference population. Association between lipoprotein subfractions and cardiovascular events is based on Musunuru et al. ATVB. 2009;29:1975.

For additional information, please refer to <http://education.QuestDiagnostics.com/faq/FAQ134> (This link is being provided for informational/educational purposes only.)

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

APOLIPOPROTEIN B	73	NORMAL	49-103 mg/dL	01
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Risk: Optimal < 80 mg/dL; Moderate 80-119 mg/dL; High > or = 120 mg/dL Cardiovascular event risk category cut points (optimal, moderate, high) are based on National Lipid Association recommendations - Davidson et al. J Clin Lipidol. 2011;5:338

LIPOPROTEIN (a)	13	NORMAL	<75 nmol/L	01
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Risk: Optimal < 75 nmol/L; Moderate 75-125 nmol/L; High > 125 nmol/L Cardiovascular event risk category cut points (optimal, moderate, high) are based on Marcovina et al. Clin Chem. 2003;49:1785 and Nordestgaard et al. European Heart J. 2010;31:2844 (results of meta-analysis and expert panel recommendations).

Performing Laboratory Information:

01: Quest Diagnostics-Wood Dale, 1355 Mittel Blvd, Wood Dale IL, phone: , Medical Director: MD Anthony V Thomas